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ATTY. DOCKET NO. 20676-712

APPLICANT Leisten

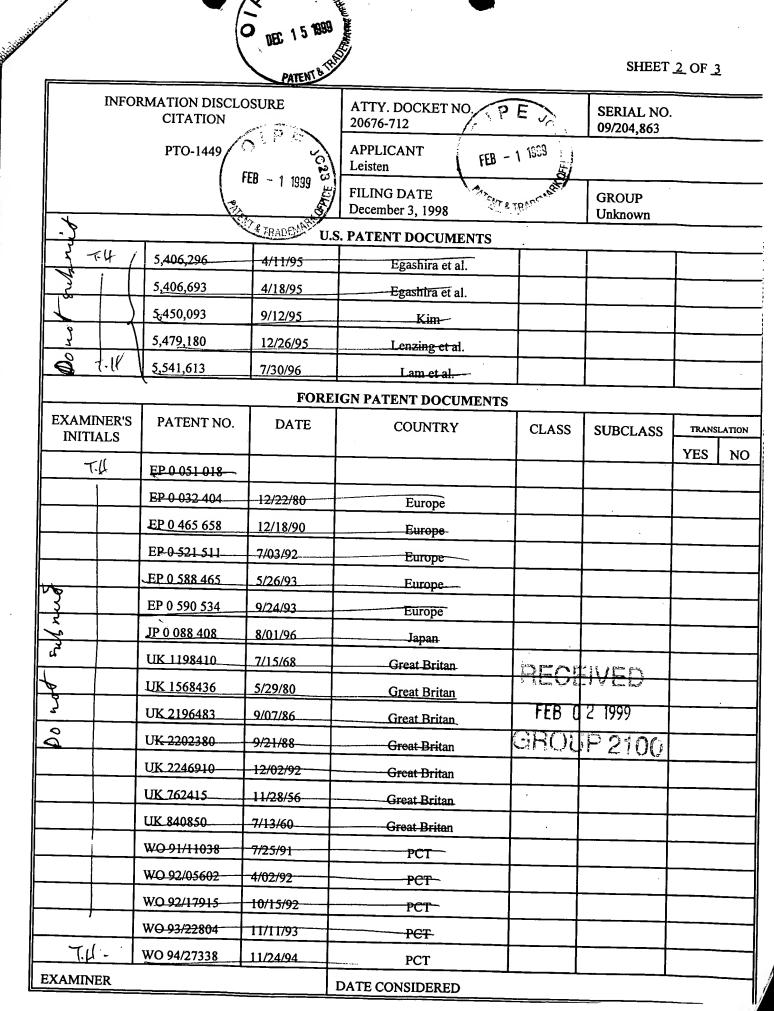
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···		U.	S. PATENT DOCUMENTS	s	<u> </u>	
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	2,575,377	11/20/51	Wohl			
	-2,763,003	9/11/56	Harris		-	
	3,633,210	1/04/72	Westerman			
	3,906,509	9/16/75	DuHamel			
	4,008,478	2/15/77	Ikarath et al.		-	
	4,008,479	2/15/77	Smith			-
4	4,160,979	7/10/79	Drewett			
3	4,204,212	5/20/80	Sindoris et al.			
ž ,	4,270,128	5/26/81	Drewett		-	
3	4,323,900	4/06/82	Krall et al.			
3	4,349,824	9/14/82	Harris			
·	4,608,574	8/26/86	Webster et al.			
00	4,862,184	8/29/89	Ploussios			<del></del>
	4, <del>940,992</del>	7/10/90	Nguyen et al.			
	4,980,694	12/25/90	Hines			<u> </u>
	5,081,469	1/14/92	Bones	F4	The state of	×
	5,099,249	3/24/92	Scavey		CFWE	<u>.                                    </u>
	5,134,422	7/28/92	Auriol		B 0 2 1999	
	5,255,005	10/19/93	Terret et al.		JUP 211	)( ;
	5,258,728	11/02/93	Taniyoshi et al:			
	5,298,910	3/29/94	Takei et al.		· ·	<del></del>
	5,329,287	7/12/94	Strickland			
	5,341,149	8/23/94	Valimaa et al.			
	5,345,248	9/06/94	Hwang et al.			
	5,346,300	9/13/94	Yamamoto et al.			
	5,349,361	9/20/94	Egashira et al.			
	5,349,365	9/20/94	Ow et al.	<del>-   -  </del>		
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	FEB - 1 1999 3	FILING DATE December 3, 1998	GROUP Unknown "V8 Y			
	OTHER DOCUM	ENTS (Including Author, Title, Date, Perti	nent Pages, Etc.			
4.7 7.4	Hakano, Hisamatsu, HELICAL AND SPIRAL ANTENNASA NUMERICAL APPROACH, Research Studies Press Ltd					
T. U.S.	Krall, McCorkel, Scarzello, Syeles, C No. 6, November, 1979	OMMUNICATIONS, IEEE Transactions On Ante	nnas and Propagation, Vol.AP-27			
EXAMINER	Tanlo.	DATE CONSIDERED 11/18/99				

<sup>3</sup>XAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not onsidered. Include copy of this form with next communication to applicant.

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SHEET 1 OF 3

PTO-1449		1		09/204,863		
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		FILING DATE December 3, 1998		GROUP Unknown V8 U		
	U.S	S. PATENT DOCUMENTS				
EXAMINER'S PATENT NO. INITIALS	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	11/20/51	Wohl		10 TO 13 TO 15 TO		
2,763,003	9/11/56	Harris				
3,633,210	1/04/72	Westerman	, î			
3,906,509	9/16/75	DuHamel				
4,008,478	2/15/77	Ikarath et al.				
4,008,479	2/15/77	Smith				
4,160,979	7/10/79	Drewett		· · · · · · · · · · · · · · · · · · ·		
4,204,212	5/20/80	Sindoris et al.	-			
4,270,128	5/26/81	Drewett	,			
4,323,900	4/06/82	Krall et al.				
3 4,349,824	9/14/82	Harris				
1. 1 7,000,577	8/26/86	Webster et al.				
4,862,184	8/29/89	Ploussids				
4, <del>940,992</del>	7/10/90	Nguyen et al				
4,980,694	12/25/90	Hines -		>		
5.081,469	1/14/92	Bones -	O	CFWE	To a	
5,099,249	3/24/92	Scavey			<i>#</i>	
5,134,422	7/28/92	Auriol		B 0 2 1999		
5,255,005	10/19/93	Terret et al.	GA	JUP 211	70	
5,258,728	11/02/93	Taniyoshi et al.				
5,298,910	3/29/94	Takei et al.				
5,329,287	7/12/94					
\_ <del>-5,341,149</del>	8/23/94	Valimaa et al.				
5,345,248	9/06/94	Hwang et al.			j — 1	
5,346,300	9/13/94	Yamamoto et al.				
5,349,361	9/20/94	Egashira et al.				
5, <del>349,365</del>	9/20/94	Ow et al.				
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\$		~~~	FRADENAR! U.S	. PATENT DOCUMENTS	-			
4 -	4/	5,406,296	4/11/95	Egashira et al.				
m		5,406,693	4/18/95	Egashtra et al.				
8 1		5,450,093	9/12/95	Kim				
ř		5,479,180	12/26/95	Lenzing et al.				
<b>D</b> o	-16	5,541,613	7/30/96	Lam et al.				
			FORE	IGN PATENT DOCUMENTS				
EXAMI	NER'S	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANS	LATION
INITIA	ALS						YES	NO
・て	L	EP 0 051 018						
		EP 0 032 404	<del>-12/22/80</del>	Europe			/	
	س.	EP 0 465 658	12/18/90	<u>Europe</u>				
		EP-0-521-511	7/03/92	Europe				
	_	EP 0 588 465	5/26/93	Europe				
73	-	EP 0 590 534	9/24/93	Europe				
z,		JP 0 088 408	8/01/96	Japan	-			
r <sub>y</sub>		UK 1198410	7/15/68	Great Britan				••
4	/	UK 1568436	5/29/80	Great Britan	HEUL			
3		UK 2196483	9/07/86	Great Britan	FEB C	2 1999		<del></del>
Do		U <del>K 2202380</del>	9/21/88	Great-Britan	GHOL	IP 2100		
	_	UK 2246910	12/02/92	Great Britan				
	_	UK 762415	11/28/56	Great Britan				
		UK 840850	7/13/60	Great Britan				
	_	WO-91/11038	7/25/91	PCT				
		WO 92/05602	4/02/92	PCT-			<u>-</u>	
	_	WO 92/17915	10/15/92	PCT-				- 17
	_	W <del>O 93/22804</del>	11/11/93	PCT				
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	OTHER DOCUM	ENTS (Including Author, Title, Date, Perti	nent Pages, Etc.
4.9 T.H	Hakano, Hisamatsu, HELICAL AND	SPIRAL ANTENNASA NUMERICAL APPROA	ACH, Research Studies Press Ltd
	Krall, McCorkel, Scarzello, Syeles, C No. 6, November, 1979	OMMUNICATIONS, IEEE Transactions On Anter	nnas and Propagation, Vol.AP-27
EXAMINER	Tanto.	DATE CONSIDERED 11/18/99	

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INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO. 20676-712		SERIAL NO. 09/204,863			
PTO-1449			APPLICANT Leisten				
			FILING DATE December 03, 1998		GROUP Not-Assigned	2821	
		U.S	5. PATENT DOCUMENTS				
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
T.4.	4,442,438	4/10/84	Siwiak et al.	343	792		
T.H.,	5,612,707	3/18/97	Vaughan et al.	343	895		
T.H.	5,748,154	5/05/98	Yokota	343	702		
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T.H -	0 469 741 A1	7/16/91	Europe				
T.U.	0 241 921A1	4/14/87	Europe				
	OTHER DO	CUMENTS OF	cluding Author Title Date	Pertinent Per	es Etc.)		
74	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  Casey, SQUARE HELICAL ANTENNA WITH A DIELECTRIC CORE, IEEE Transactions on Electromagnetic Compatibillity, Vol. 30 No. 4, 11/88						
				,			
EXAMINER	Tanto	<u> </u>	DATE CONSIDERED (	1117/99			

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SHEET 1 OF 1 INFORMATION DISCLOSURE ATTY. DOCKET NO. SERIAL NO. **CITATION** 20676-712 09/204,863 **APPLICANT** PTO-1449 Leisten **FILING DATE GROUP** Not Assigned WY December 03, 1998 **U.S. PATENT DOCUMENTS EXAMINER'S** PATENT NO. DATE NAME **CLASS SUBCLASS FILING INITIALS** DATE T.H. 5,170,176 12/08/92 Yasunaga et al. 343 895 FOREIGN PATENT DOCUMENTS TRANSLATION **EXAMINER'S** PATENT NO. DATE **COUNTRY CLASS SUBCLASS INITIALS** NO 7: H -0 198 578 A1 10/22/86 Europe DE 3217437 11/10/83 Germany T.H. OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Josef Pomarski, P 186944, Method of Masking Substrate Plates, pages 1-2 Tan Ho

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